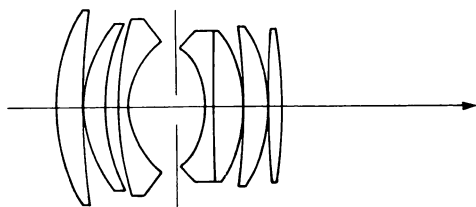


MINOLTA AF 50mm F1.4 (2562-100)

MINOLTA MAXXUM AF 50mm F1.4 (2562-600)

LENS



Construction : 7 elements in 6 groups
Type : Modified-Gauss type
Coating : Minolta Achromatic
Angle of view : 47°
Lens mount : Minolta A mount
Lens signal contact : 5 contacts
Diaphragm : Automatic preset diaphragm
f No. : Maximum...1.4
Minimum...22
Full-stop setting...8 stops
Diaphragm blade : 7 blades

FOCUSING

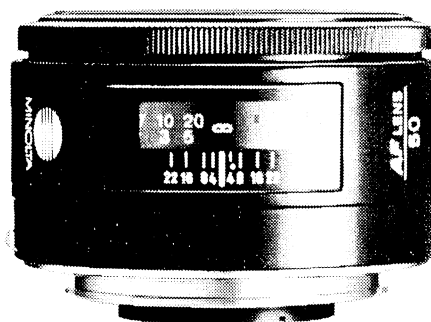
Focusing : AF, FA, M
Type : Double helicoid system
Minimum focusing distance : 0.45 m

Distance scale :

1.5	1.7	2	2.5	3	4	5	7	10	20	(ft)			
0.45	0.5	0.55	0.6	0.7	0.8	1	1.2	1.5	2	3	5	∞	(m)

Infrared correction index : Yes

Depth-of-field scale : 4 8 16 22



DIMENSIONS & WEIGHT

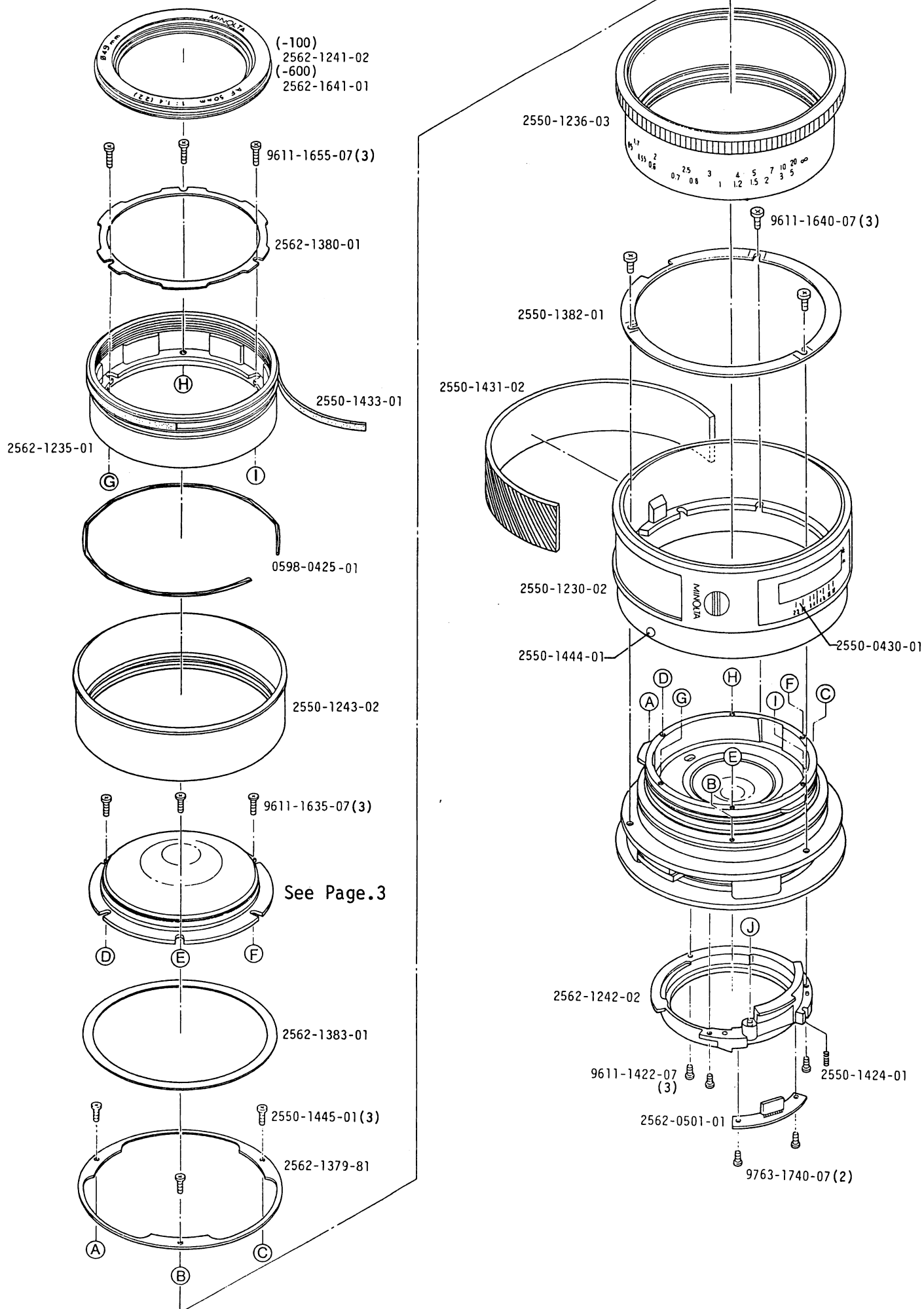
Dimensions : $\phi 65.5$ (max. diameter) \times
38.5 mm (max. length)
Weight : 235 g
Filter-thread diameter : $\phi 49$ mm (P=0.75)
Lens hood : Built-in

ACCESSORIES

Lens case (LH-1011)

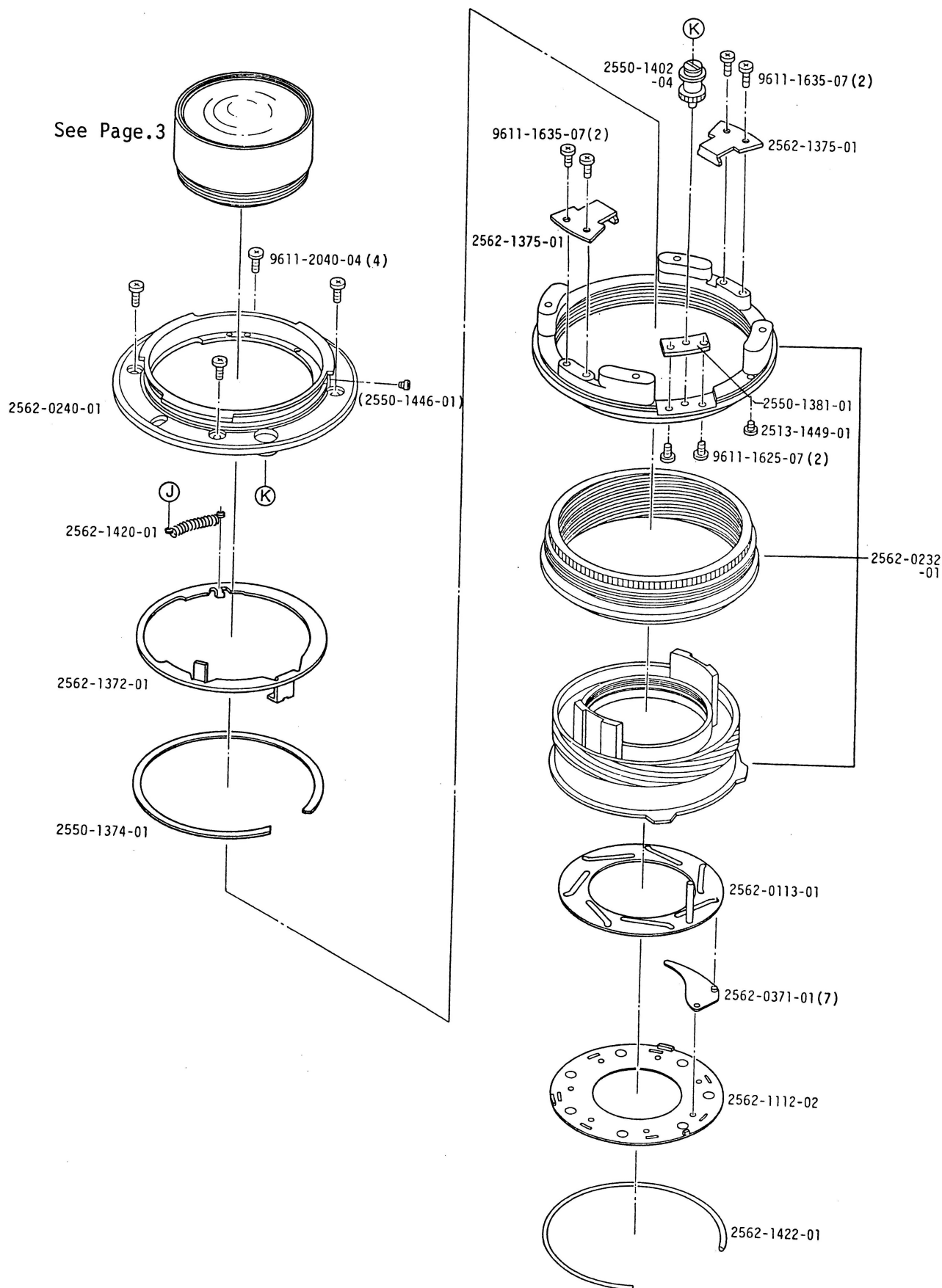
I N D E X

Part No.	Page	Part No.	Page	Part No.	Page
2562-0030-----	3	2550-1374-----	2		
2562-0113-----	2	2562-1375-----	2	2562-1641-----	1
2562-0232-----	2	2562-1379-----	1		
2562-0240-----	2	2562-1380-----	1	2562-1806-----	3
2562-0371-----	2	2550-1381-----	2	2562-1807-----	3
0598-0425-----	1	2550-1382-----	1		
2550-0430-----	1	2562-1383-----	1	2521-5105-----	3
2562-0501-----	1			2521-5104-----	3
2521-0503-----	3	2550-1402-----	2		
		2562-1420-----	2	Screw	
2562-1112-----	2	2562-1422-----	2	9611-1422-07-----	1
2550-1230-----	1	2550-1424-----	1	9611-1625-07-----	2
2562-1235-----	1	2550-1431-----	1	9611-1635-07-----	1,2
2550-1236-----	1	2550-1433-----	1	9611-1640-07-----	1
2562-1241-----	1	2550-1444-----	1	9611-1655-07-----	1
2562-1242-----	1	2550-1445-----	1	9611-2040-04-----	2
2550-1243-----	1	2550-1446-----	2		
2562-1372-----	2	2513-1449-----	2	9763-1740-07-----	1



Part No.	Part Name		Qty.
0598-0425-01	Hood friction spring set	フード摩擦スプリングセット	1
2550-0430-01	Distance scale window set	距離表示窓セット	1
2562-0501-01	Lens contact board set	信号基板セット	1
2550-1230-02	Outer ring	固定保持環	1
2562-1235-01	Filter ring	鏡頭環	1
2550-1236-03	Focusing ring	距離リング	1
2562-1241-02	Name ring (-100)	飾り環	1
2562-1242-02	Rear light shield ring	後遮光筒	1
2550-1243-02	Hood	フード	1
2562-1379-81	Focusing ring set plate	距離リング締付板	1
2562-1380-01	Filter ring set plate	鏡頭環締付板	1
2550-1382-01	Outer ring set plate	固定保持環締付板	1
2562-1383-01	Hood stopper ring	フード当りリング	1
2550-1424-01	Spring	アーススプリング	1
2550-1431-02	Leather	貼皮	1
2550-1433-01	Friction cloth	摩擦布	1
2550-1444-01	Bayonet point	バヨネット標点	1
2550-1445-01	Screw	止めねじ	3
2562-1641-01	Name ring (-600)	飾り環	1
9611-1422-07	Phillips type screw	十字穴付なべ頭小ねじ	3
9611-1635-07	Phillips type screw	十字穴付なべ頭小ねじ	3
9611-1640-07	Phillips type screw	十字穴付なべ頭小ねじ	3
9611-1655-07	Phillips type screw	十字穴付なべ頭小ねじ	3
9763-1740-07	Tap tite screw	十字穴付半丸頭タップ タイトねじ	2

AF 50mm F1.4(22) Code No.2562-100
MAXXUM AF 50mm F1.4(22) Code No.2562-600



Part No.	Part Name		Qty.
2562-0113-01	Diaphragm operation plate set	絞り操作板セット	1
2562-0232-01	Helicoid set	ヘリコイドセット	1
2562-0240-01	Bayonet mount set	バヨネットマウントセット	1
(2550-1446-01)	Screw	ストッパービス	1
2562-0371-01	Diaphragm blade set	絞り羽根セット	7
2562-1112-02	Diaphragm pressure ring	絞り押え環	1
2562-1372-01	Preset ring	プリセットリング	1
2550-1374-01	Preset ring pressure	プリセットリング押え	1
2562-1375-01	Helicoid key	直進キー	2
2550-1381-01	Axis receive - B	軸受B	1
2550-1402-04	Coupler	カプラー	1
2562-1420-01	Main spring	メインスプリング	1
2562-1422-01	Diaphragm pressure ring spring	絞り押え環スプリング	1
2513-1449-01	Screw	止めねじ	1
9611-1625-07	Phillips type screw	十字穴付なべ頭小ねじ	2
9611-1635-07	Phillips type screw	十字穴付なべ頭小ねじ	4
9611-2040-04	Phillips type screw	十字穴付なべ頭小ねじ	4

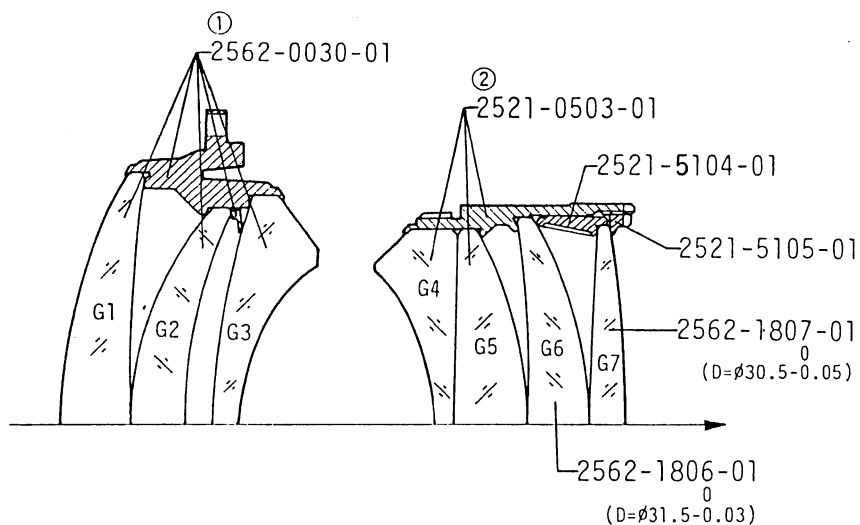
AF 50mm F1.4(22) Code No.2562-100
 MAXXUM AF 50mm F1.4(22) Code No.2562-600

■ When repairing following parts, must be checked resolving power by projection.

①: The influential lens element in the lens performance. (Number shows in order.)

■ 下記部品を修理した場合は、必ず投影解像力を確認して下さい。

①: レンズ性能によく影響するレンズ。(数字は順位を示す)



Part No.	Part Name		Qty.
2562-0030-01	Front lens group set	前玉群セット	1
2521-0503-01	Rear lens barrel set	後玉枠セット	1
2562-1806-01	Lens - G6	レンズG6	1
2562-1807-01	Lens - G7	レンズG7	1
2521-5105-01	G7 pressure ring	G7押え	1
2521-5104-01	G6,7 spacer	G6,7間隔ワッシャー	1

REPAIR GUIDE

- The contents of this manual are in accordance with the assembling procedure. Therefore, follow the reverse procedure when disassembling.

— Description of marks used —

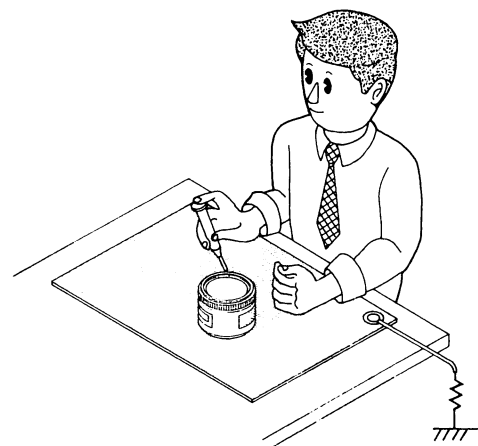
- **[B]** : Adhesive
- **[S]** : Solvent
- **[A]** : Anti-diffusion compound
- **[G]** : Lubricant
- **[T]** : Tool
- : Point of assembling and general caution

■ Assembling and adjusting procedure

	Page
① Outer helicoid, Middle helicoid, Inner helicoid assembling	1
② Diaphragm blade, Coupler, Bayonet mount, Rear lens group, Rear light shield ring, Lens contact board assembling	2
③ Outer ring, Focusing ring assembling	3
■ Aperture diameter adjusting (including pre-check)	3
④ Front lens group, Filter ring, Name ring assembling	4
■ Flange back adjusting	4
■ Projection resolving power adjusting	4
■ Aperture diameter checking	4
■ General function checking	4
■ Description of focusing	5
■ Wiring schematic diagram and printed wiring diagram	5

■ Precautions

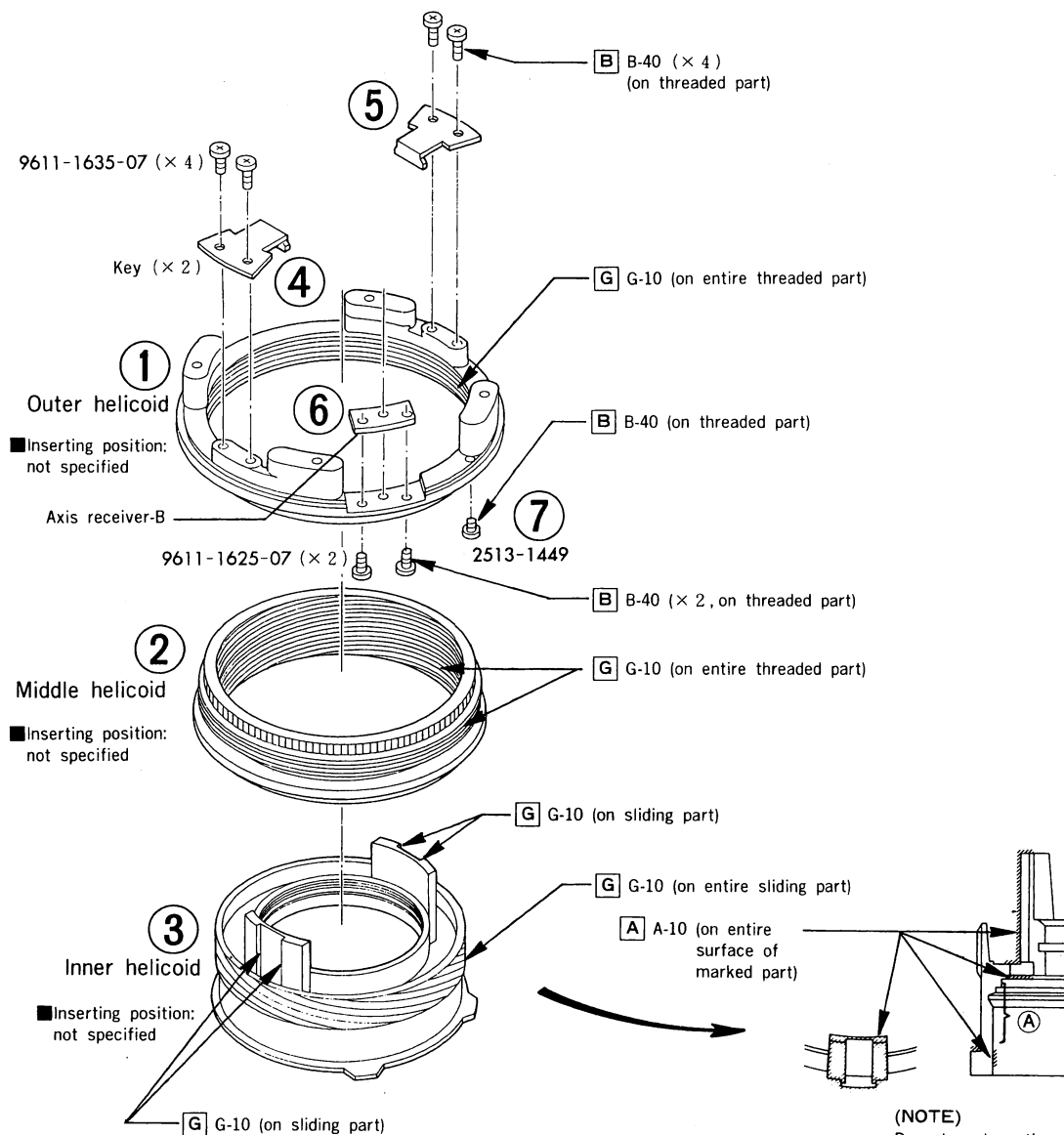
- Since this lens uses many resin parts, keep the following in mind when assembling and adjusting.
 - Use Flonsolve or alcohol when cleaning. Never use the thinner, ketone or ether.
- Since MOS-IC is used in this lens, it is necessary to take special precautions about static electricity. When performing repairs, use the conductive mat without fail, as shown.



1 Outer helicoid, Middle helicoid, Inner helicoid

■ Assemble the parts in the order of ①-⑦. After assembling, wipe off overflowed grease.

■ While assembling parts ①-④, perform the adjustments of helicoid position and level. (See Fig. 1.)

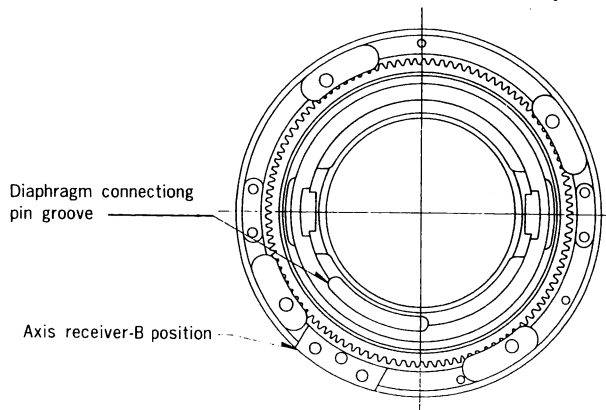
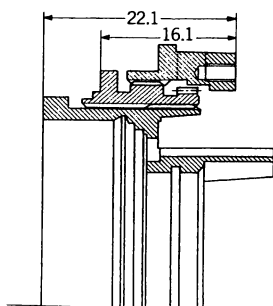


■ After assembling, check the helicoid functioning (stiffness, smoothness, catching).

■ Fig. 1 Helicoid position, level adjusting

- Set the helicoid level as shown, at infinity (∞) setting.

- Axis receiver-B position and diaphragm connecting pin groove should be in position as shown installing helicoid key.



2 Diaphragm blade, Coupler, Bayonet mount, Rear lens group, Rear light shield ring, Lens contact board

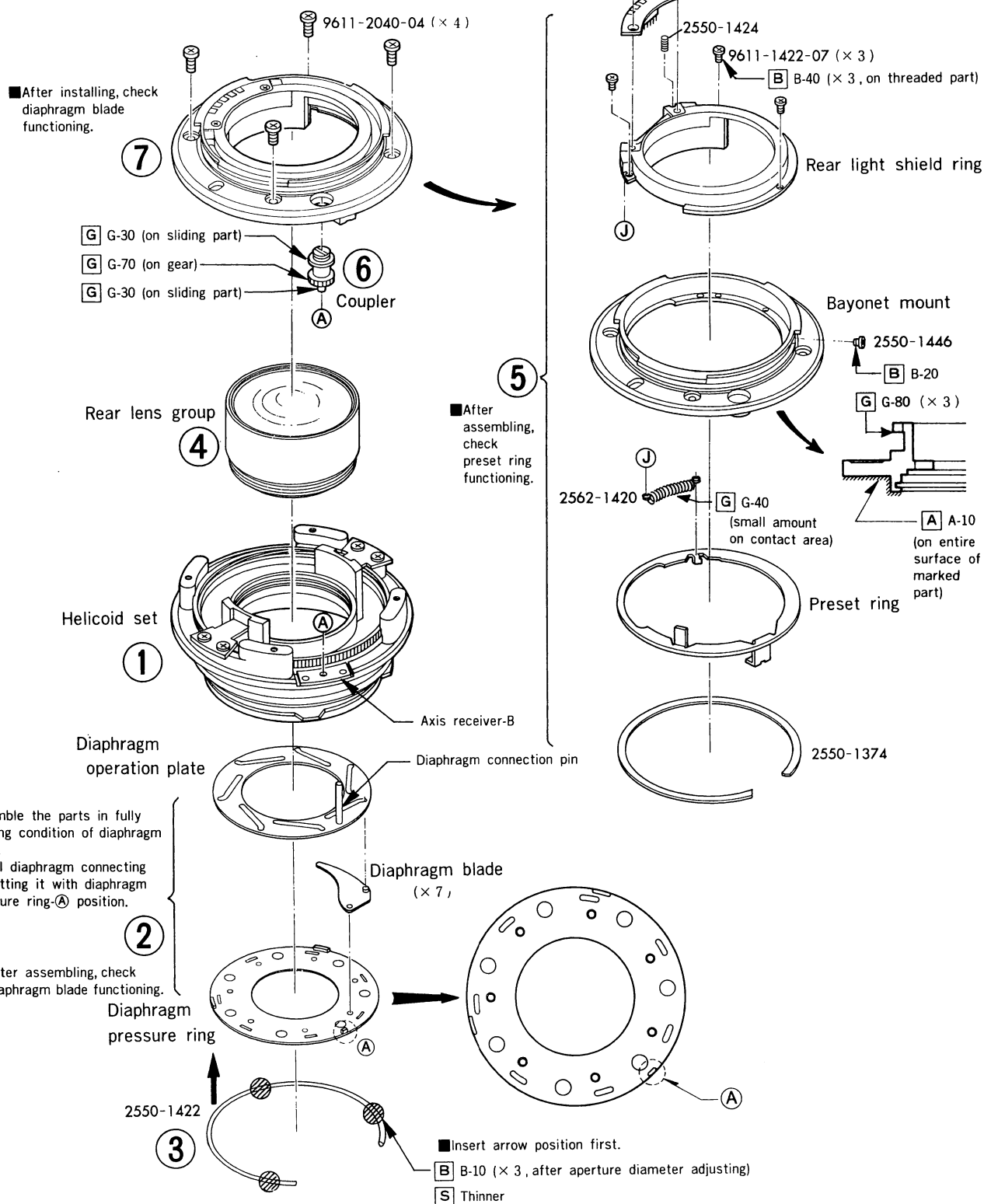
■ Assemble the parts in the order of ①-⑦.

■ After assembling, check coupler functioning, turning helicoid.

(If helicoid functioning is stiff, adjust axis receiver-B.)

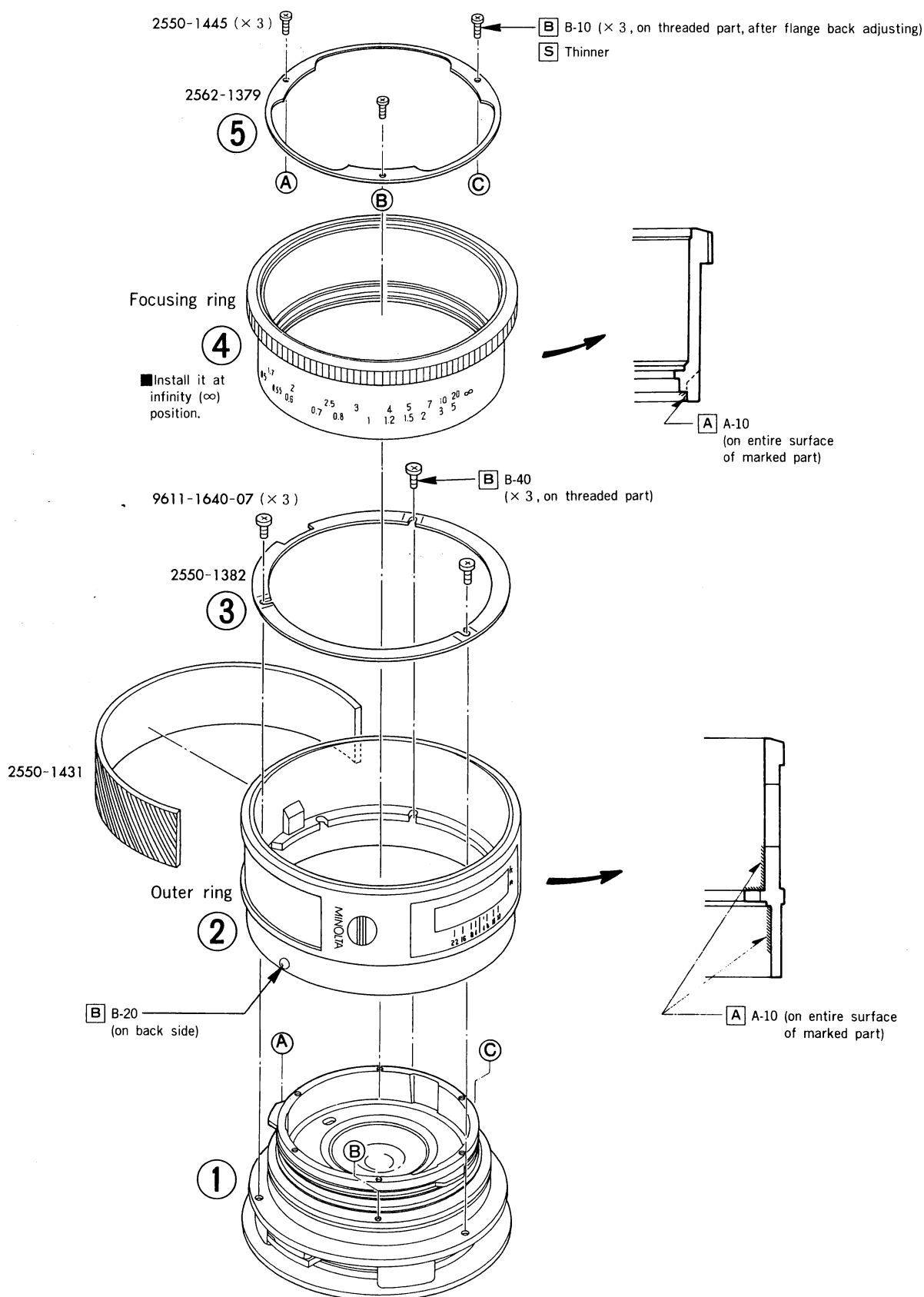
■ Avoid excessive tightening.

■ Pay attention to static electricity.



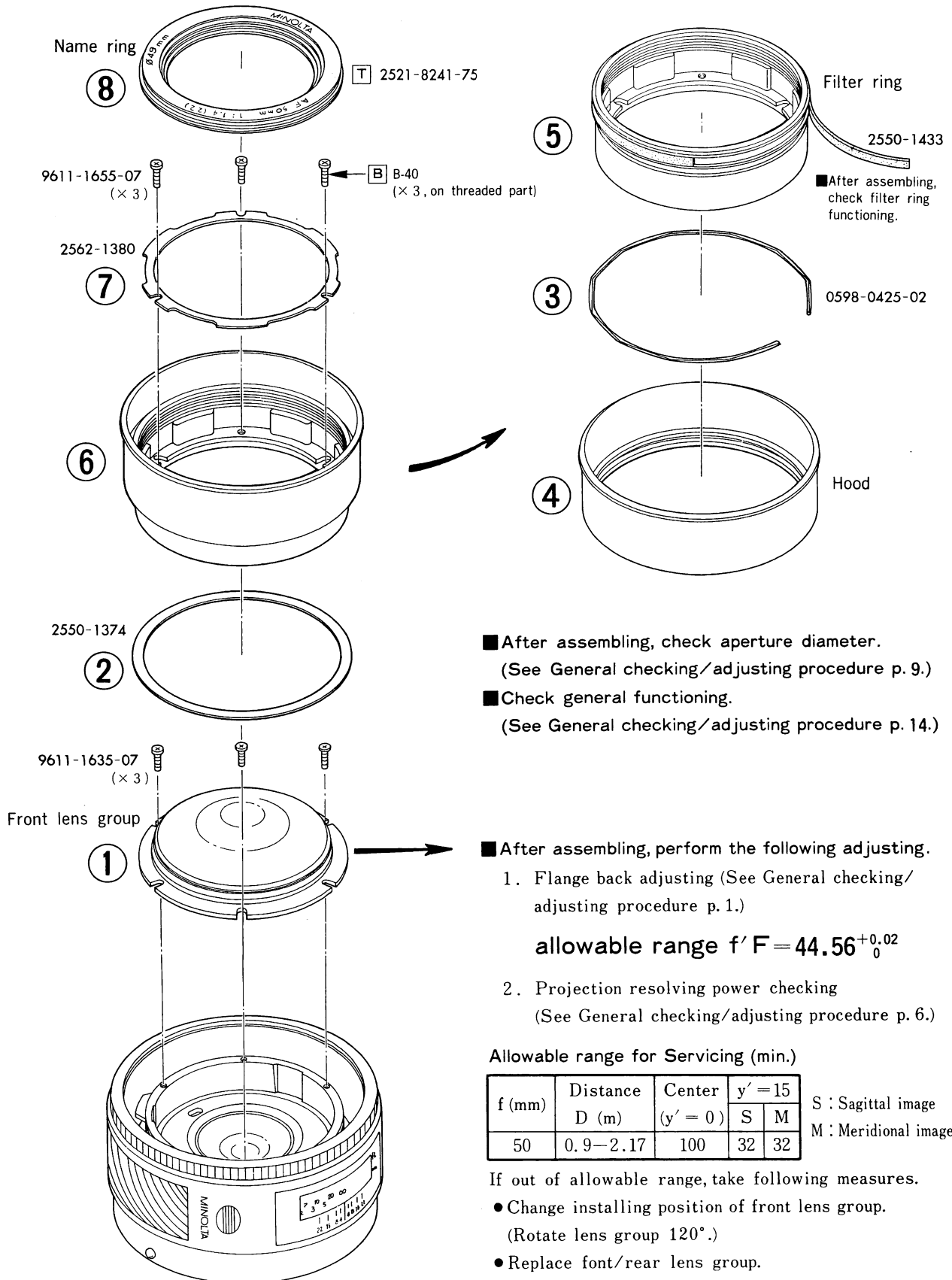
3 Outer ring, Focusing ring

■ Assemble the parts in the order of ①–⑤. After assembling, perform aperture diameter adjusting (including pre-check, referring to General checking/adjusting procedure on p. 8, 9).

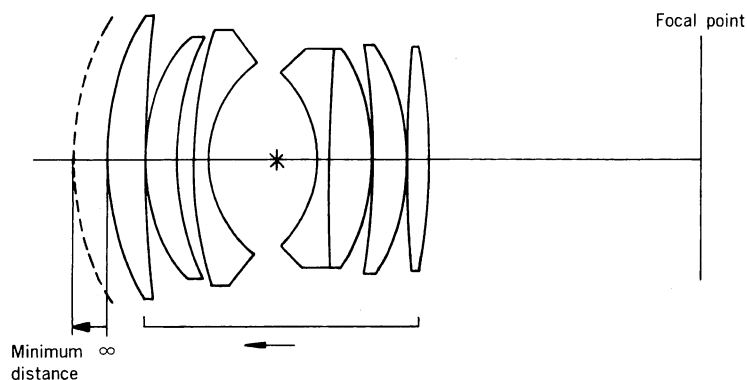


4 Front lens group, Filter ring, Name ring

■ Assemble the parts in the order of ①-⑧.



■ Description of focusing



- Double helicoid system
 By rotating AF coupler or focusing ring, all optical lenses move in the same way.

■ Wiring schematic diagram and printed wiring diagram

